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Title: Lessons learned from the study of congenital hip disease in adults

Dear Sir,

We would like to thank the Editor and both the Reviewers for the time and effort spent reviewing our manuscript, as for your well-intentioned and constructive comments on our manuscript.

Specific comments

Reviewer 1

Main text Lesson 2 The first paragraph, line 6: Does the sentence, “The majority of infant dysplastic hips remain undiagnosed” show the current status in your country? In many countries as european countries and north american countries, asian countries, the screening system for infantile DDH has been established, and most of infantile dysplastic hips would be diagnosed, although I agree that there are many potentially congenital hip dysplasia, which develops in adolescent.

Response: Manuscript was changed according to reviewer’s comments (page 5, line 123).

The third paragraph, line 3: Does “the presence or not of a false acetabulum” mean “the presence or absence of a false acetabulum”?

Response: Manuscript was corrected accordingly (page 5, line 134).

Lesson 3 The first paragraph, line2: What are the “absolute indication” for THR for this patient group?

Response: Absolute indication criteria of THR in these patients were added in the manuscript (page 5, line 147-149).

The third paragraph “Restoration of the normal center of rotation of the joint”: I totally agree with your idea that the restoration of the normal center of rotation is a critical point of THRs for CDH. However, I usually achieve it by an autologous or an allogenic bone graft to the proximal defect of the true acetabulum, with or without a metal augmentation. Could you explain the characteristics and benefits of cotyloplasty comparing to the acetabular bone grafting?

Response: Information has been added according to reviewer’s comments (page 6, line 164-177).

The fifth paragraph “Special implants”, the last sentence: Which implants with new cementless designs do you use now? Why you have changed the implants in use?

Response: The senior author has been retired for the last 10 years and has no personal experience. The reference to the new designs is general statement from the more recent orthopaedic practice.

Lesson 4: In the abstract, you have mentioned about “the letters of these patients” as a verification of THR in young patients. However, there are no descriptions about the letters in this part of the main text. If it is not adequate to show the letters in this article, I suppose it may be enough to cite previous reports studying patients’ satisfaction after THR.

Response: A paragraph has been added according to reviewer’s comments (page 7-8, line 206-219).

Line 2: Is there any data or references about the sentence, “ these patients have pain, severe limping ”? I have experienced the patients without pain and psychological disorders during childhood. The sentence should be changed to “ The patients may/could have pain ... ” or “ In our country, the patients have pain, severe limping ” etc..

Response: Manuscript was changed accordingly (page 7, line 200).

Figure 2 What are the black-colored areas in the pictures of dysplasia and low dislocation?

Response: Data about the black-colored areas were added in the figure's caption.

Figure 3 About line A. I was wondering if the superior limit of the true acetabulum might be difficult to be determined in a radiograph. If there are any landmarks for this line, please indicate them.

Response: There are no landmarks to determine the superior limit of the true acetabulum, however the CT scan can help to determine it when it is not clear in plain radiographs. An addition was made in the figure's caption accordingly.

Ref. 10 should be published until this article will be accepted.

Response: We are waiting that in a few days the ref. 10 will be published. If not, we will omit it in a later stage of the publication process.

Please check the grammar and the spelling again.

Response: We made an effort to correct grammar and spelling errors.

Reviewer 2

This is a well written review by a prominent surgeon who has a great contribution in the field of CDH treatment. However, I don't think that new

knowledge has been added, as everything in the manuscript has been analyzed in the past.

Response: The Reviewer argues that this review article does not add new knowledge. However, we believe that articles with the title "lessons learned" are by definition review articles based on previous author's published experience and they do not add new information.

Reviewer 3

Please add small addition information about the technique of the cotyloplasty and some critical comments about the Harris pasty for better understanding for the reader.

Response: Manuscript was changed accordingly (page 6, line 164-177).